



**Custom Engineering Innovation for
Your Industry Needs!**



■ About us

Since its founding in 2008, Alpha Engineering has been a reputable name in precision engineering, providing a wide variety of superior products that are tailored to our clients' unique requirements. Our commitment to reliability, efficiency, and customer satisfaction is demonstrated by the solid relationships we have developed with 100 + delighted customers over the years.

We at Alpha Engineering are aware of the constantly changing needs of various industries and work hard to increase the variety of products we offer. Our aftermarket solutions are made to be reliable and affordable, giving businesses access to premium substitutes that are supported by our trustworthy excellence guarantee.

■ Our Expertise

With extensive experience in machine design across various industries, particularly in the food processing and marine sectors, we specialize in crafting innovative engineering solutions tailored to enhance productivity and efficiency. Our expertise covers the design, manufacturing, and implementation of advanced mechanical systems that streamline industrial processes.

If your business aims to reduce manual handling and optimize operations, Alpha Engineering is here to help. Our solutions include:

Automated Feed Systems

Ensuring smooth material flow and reducing dependency on manual labor.

Custom Conveyor Systems

Designed to enhance production efficiency and minimize downtime.

Mechanical Handling Equipment

Engineered to improve process automation and workplace safety.

With a deep understanding of industry challenges, we work closely with our clients to design tailor-made production solutions that meet their operational requirements, delivering efficiency, cost savings, and reliability.

At Alpha Engineering, our mission is to provide cutting-edge engineering solutions that drive business success. Let us help you optimize your processes with our expertise and commitment to excellence.

A. Francis

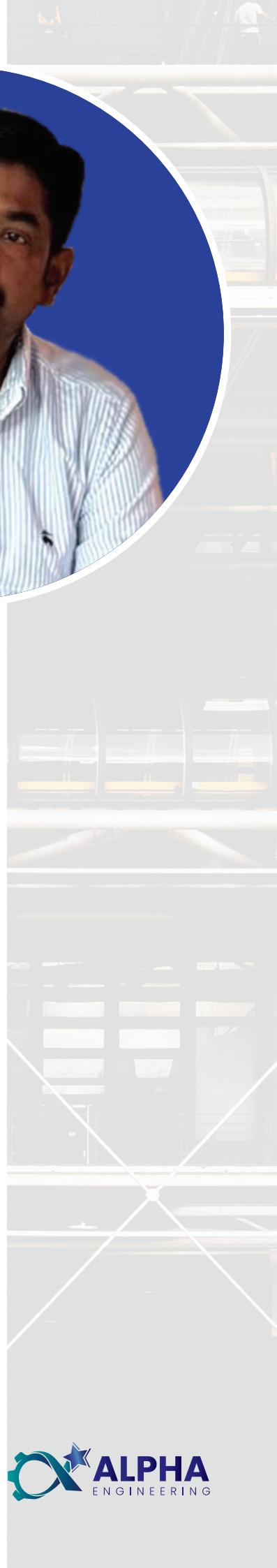
Managing Director, Alpha Engineering

A. Francis, the visionary **Managing Director of Alpha Engineering**, is a true testament to dedication, expertise, and perseverance in the engineering industry. His journey from a young technician in the field to leading a trusted engineering firm is an inspiring story of passion and hard work.

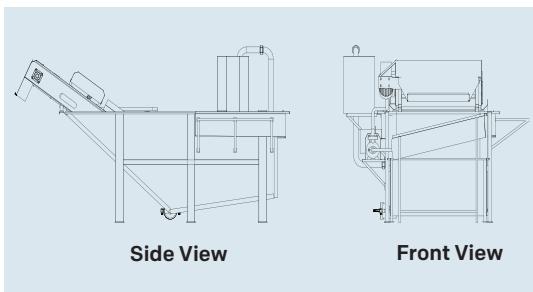
With over **30 years of hands-on experience**, Francis has gained extensive knowledge in **Machine Design, Automation, and Precision Engineering**, particularly in the **Food Processing and Marine Industries**. Starting his career at a young age, he worked diligently on the ground, mastering the intricacies of mechanical systems, troubleshooting complex challenges, and developing innovative solutions. His deep-rooted practical knowledge sets him apart as a leader who not only understands engineering principles but has personally executed them in real-world applications.

Under his leadership, **Alpha Engineering** has grown into a reliable name, known for delivering **cost-effective, high-quality, and customized engineering solutions**. His expertise has been instrumental in developing a wide range of mechanical handling systems, conveyors, & feed solutions, helping industries optimize their production processes and reduce manual labor.

Francis believes in **continuous innovation and customer - centric solutions**, ensuring that Alpha Engineering remains at the forefront of technological advancements. His commitment to excellence and his hands-on approach continue to drive the company's growth and reputation as a trusted partner in the industry.



Machine & Conveyor Solutions

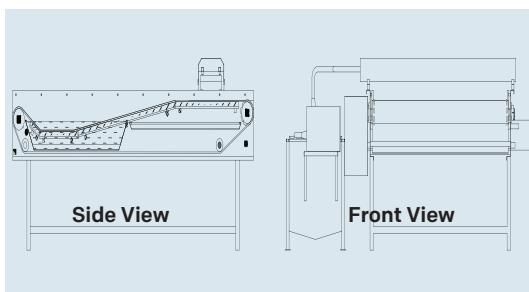


Head on Washing Machine

The Head-On Washing Machine is designed for the automatic cleaning and efficient removal of filth from shrimp. This simple yet scientifically engineered machine operates based on water flow, air bubbling, and gravity principles. It is constructed using food-grade stainless steel, ensuring a hygienic and damage-free cleaning process.

With a high production capacity, minimal infrastructure requirements, reduced processing time, and low operational costs, the machine can wash 1 to 3 tons of shrimp simultaneously. Additionally, we customize tank sizes based on customer requirements. The system is designed for water conservation, collecting used water in a tank for recirculation.

After thorough washing, the cleaned shrimp are transferred via a conveyor system. Our washing system utilizes hybrid blower motors for optimal efficiency. This product has been successfully implemented across India, providing reliable and cost-effective shrimp cleaning solutions.

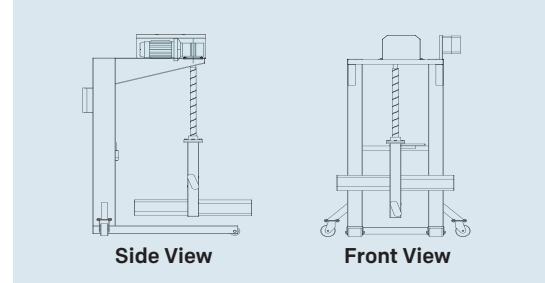


Glazing Conveyor

The glazing conveyor facilitates the glazing process for the IQF machine, making the task more efficient. Designed with a modular belt, it reduces weight and prevents rust formation, ensuring durability and hygiene. Additionally, the conveyor is equipped with a speed controller for precise operation and improved efficiency.

Agitator

An agitator is a mechanical device used to mix liquid, promote a chemical reaction, or maintain homogeneity in a solution. It consists of a rotating shaft with blades, paddles, or propellers that create motion in a liquid or slurry, ensuring uniform distribution of components.

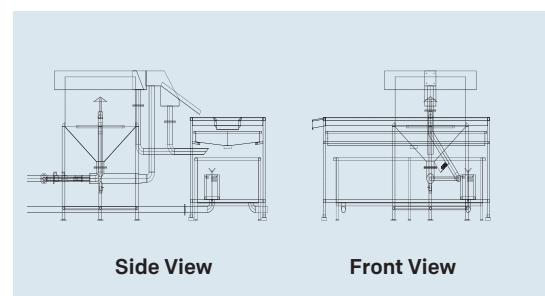
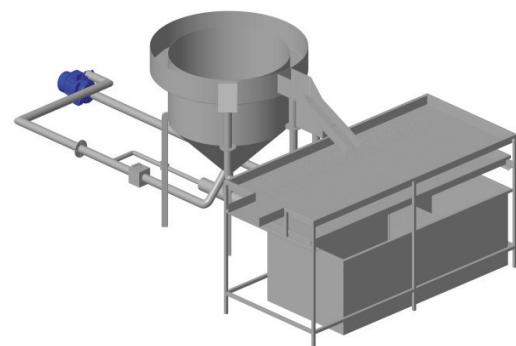


PUD Filth Washing Machine

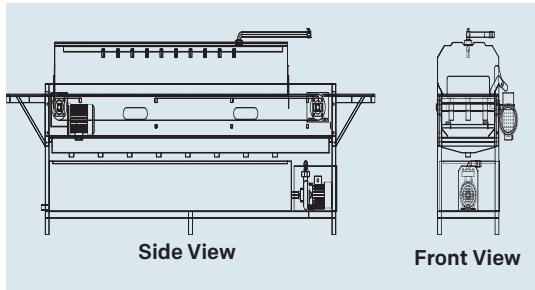
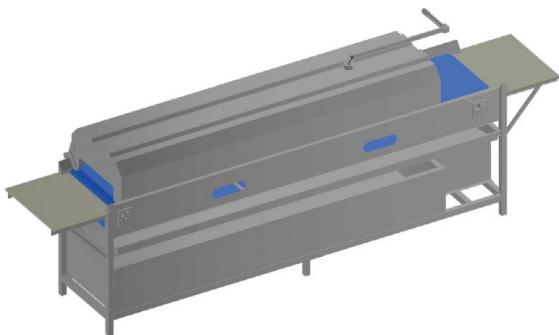
The PUD Filth Washing Machine is designed for the automatic and efficient cleaning of PUD filth shrimp. This simple yet scientifically engineered machine operates based on water flow, water spray, and gravity principles. It is constructed using food-grade stainless steel, ensuring a hygienic, damage-free cleaning process.

With high production efficiency, minimal infrastructure requirements, reduced processing time, and low operational costs, the machine can wash up to 500 kg of shrimp simultaneously. Additionally, we customize tank sizes based on customer requirements. The system is designed for water conservation, collecting used water in a tank for recirculation.

After washing, the cleaned PUD shrimp are transported through a pipeline using a water flow mechanism. The final products undergo inspection at dedicated checking tables before delivery. This product has been successfully implemented across India, providing a reliable and cost-effective shrimp cleaning solution.



Depanning Conveyor



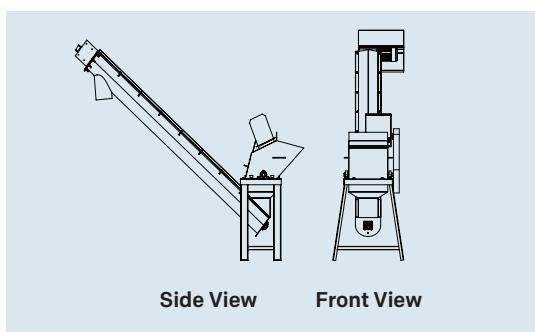
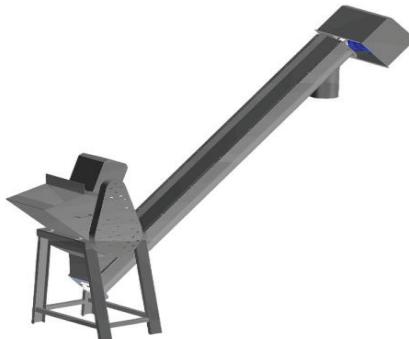
We specialize in the design, engineering, supply, and commissioning of food processing machinery and industrial refrigeration systems for the seafood and fruit industries. Our world-class, innovative cold storage solutions are offered at highly competitive prices.

Using high-grade materials and advanced cooling technology, we design a wide range of de-panning conveyors. Our system is built for water efficiency, with a bottom tank that collects and recirculates water for the process.

Our precisely engineered de-panning conveyors are widely used in seafood and food processing industries for efficiently de-panning frozen pans. Backed by a team of skilled professionals and a state-of-the-art manufacturing unit, we provide high-quality, customized de-panning conveyor solutions to our clients.

With our cutting-edge innovations and exceptional refrigeration services, we have established a strong client base across India.

Ice Crusher with Screw Conveyor



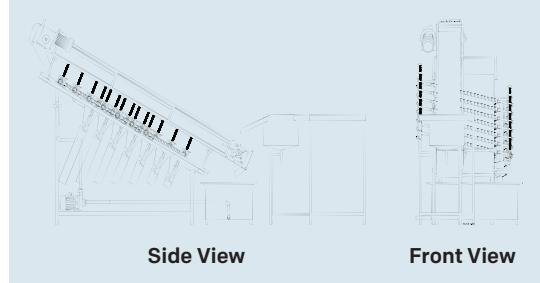
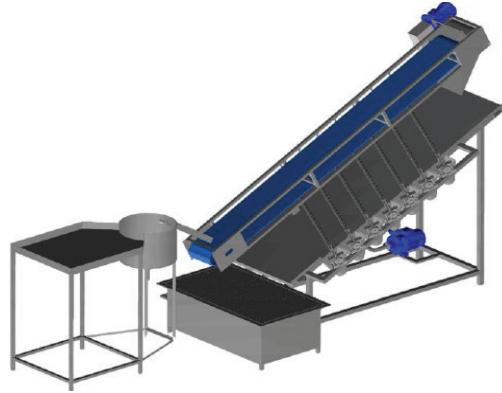
We offer an ice crusher designed to produce ice cubes, which are then efficiently transported to the required area using a screw conveyor.

PUD Grading Machine

The PUD machine is designed to separate raw PUD shrimp by size. Manufactured using food-grade SS304 stainless steel, it ensures hygiene and durability.

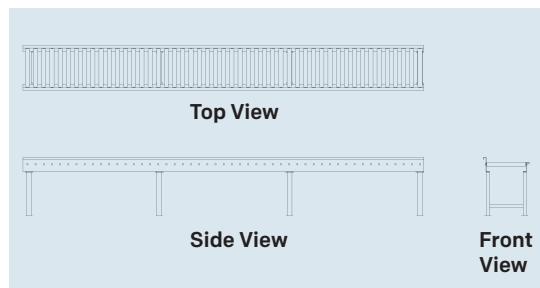
Raw shrimp are first collected in a tank and then transported through the grading system via an elevating conveyor. The grading shaft efficiently sorts the shrimp by size, with the graded materials collected in a hopper. Meanwhile, the used water is gathered in a tank and recirculated for water conservation.

This machine has been thoroughly tested and is successfully in use across India, providing an efficient and reliable solution for shrimp grading.

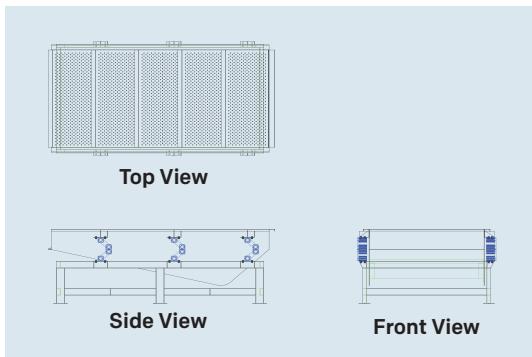


Roller Conveyor

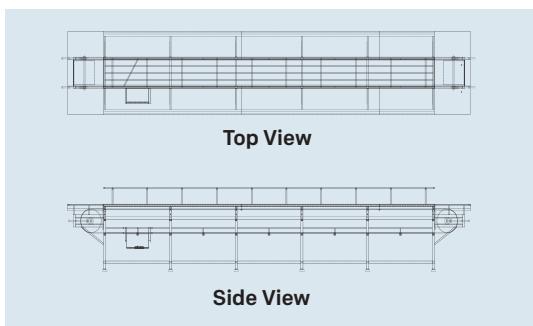
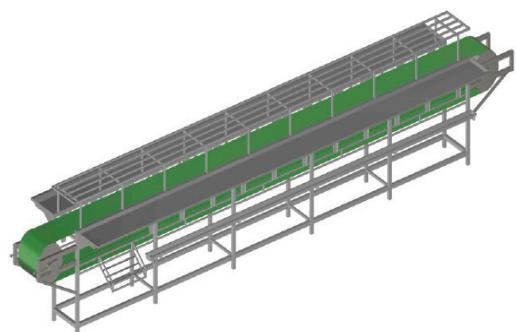
The roller conveyor is designed for effortless transportation of cartons from one location to another without the need for a motor. Its model and size can be customized to meet customer requirements.



Vibrator Conveyor



A vibrating conveyor is a mechanical system that transports materials along a designated path using controlled vibrations. Instead of a continuous flow, it moves materials forward through small, rapid jumps. These conveyors are commonly utilized in industries like food processing, pharmaceuticals, and manufacturing.



Setting Conveyor

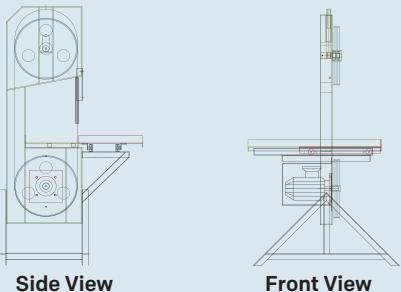
A well-designed conveyor system can significantly improve efficiency in shrimp processing by reducing labor movement, optimizing product flow, and ensuring accurate weight-based grading. Below is an optimized conveyor design for grading, packing, and waste management in a shrimp processing facility.

1. Conveyor System for Shrimp Grading & Packing
2. Reducing Labor Walking and Working Time
3. Disposal of Collected Material Pans



Fish Cutting Machine

Fish cutting machines are designed to process large quantities of fish quickly. They feature an easy-to-clean design, simplifying maintenance and ensuring hygiene. The uniform cuts improve presentation while reducing waste.



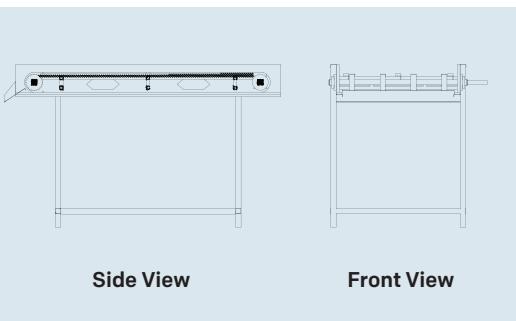
Side View

Front View



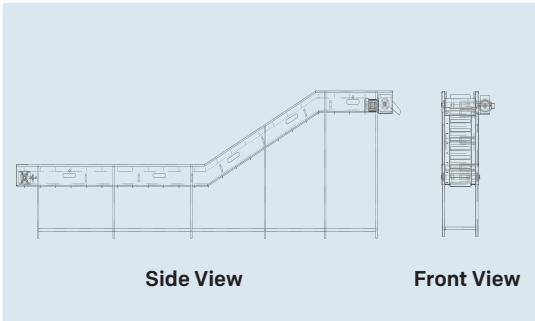
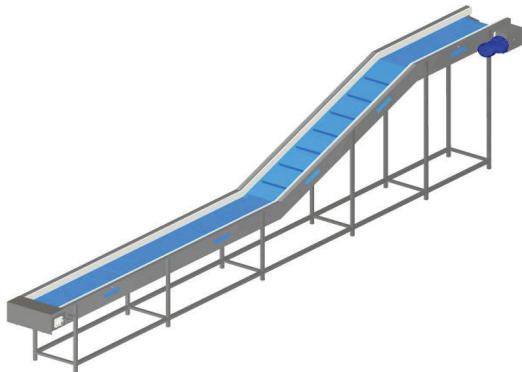
Transfer Conveyor

Transfer conveyors automate material movement, reducing the need for manual handling and lowering labor costs. They provide a steady and consistent flow of products, enhancing production efficiency and minimizing downtime. Conveyors can transport materials much faster than manual labor, greatly boosting throughput and overall productivity.



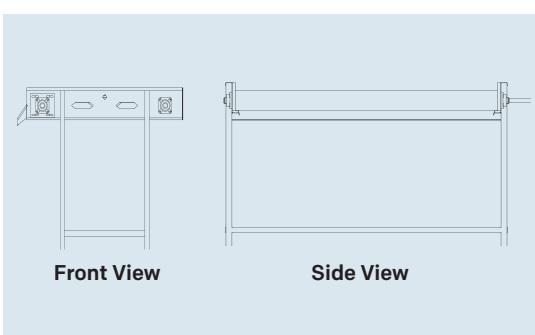
Side View

Front View



Excavator Conveyor

Elevating conveyors are designed to transport materials at an inclined angle, offering a solution when horizontal conveyors are not feasible. The conveyor belt or chain is configured to move smoothly along the incline, ensuring efficient transfer of goods between different levels. The angle of the incline can be customized to meet specific needs, providing flexibility in system design.

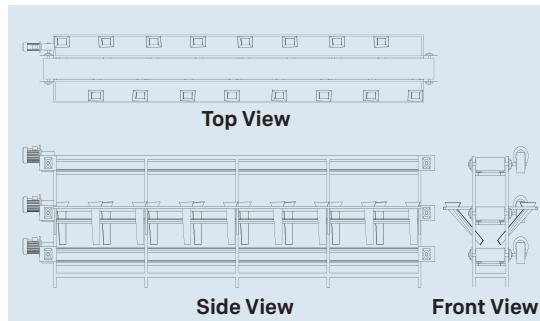
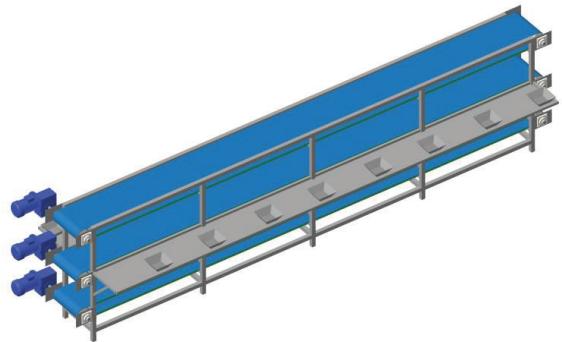


In Feed Conveyor

IQF infeed conveyors automate the process of feeding food products into an IQF freezer, boosting efficiency and reducing labor costs. These conveyors help ensure that food products are evenly spread across the conveyor belt for consistent processing.

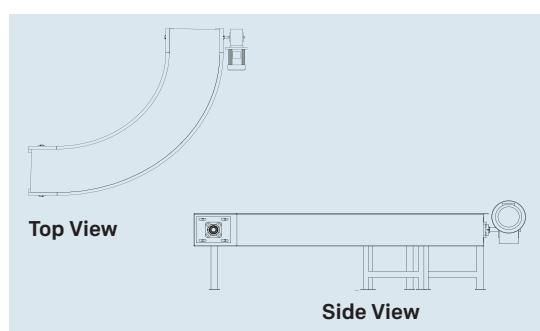
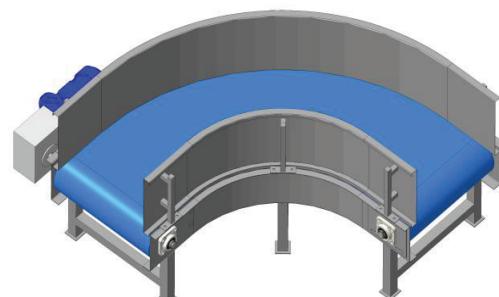
Deheading Conveyor

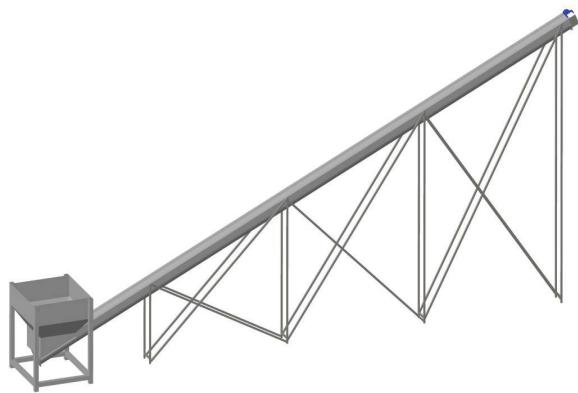
Usually constructed from food-grade materials such as stainless steel or plastic, the conveyor belt transports fish or shrimp to the deheading station. The conveyor system often features a separate mechanism for collecting and disposing of the removed heads, ensuring the work area remains clean and hygienic.



Curved Conveyor

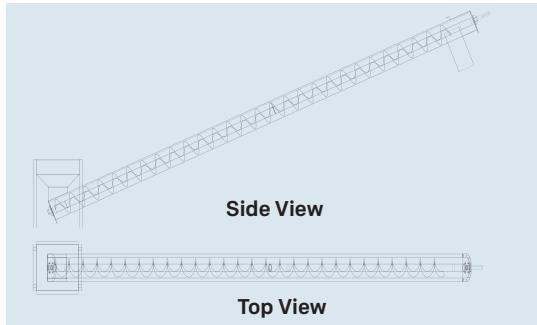
Curve conveyors efficiently utilize available space by navigating around obstacles and fitting into narrow areas. The radius of the conveyor is adjustable based on the layout, and the conveyor size can be customized to meet customer requirements.





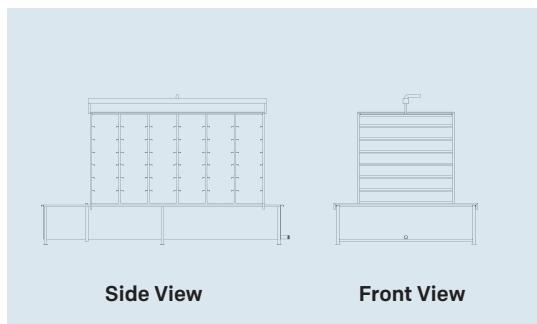
Screw Feeder

The screw conveyor is designed to transport particle materials, such as salt, from one point to another.



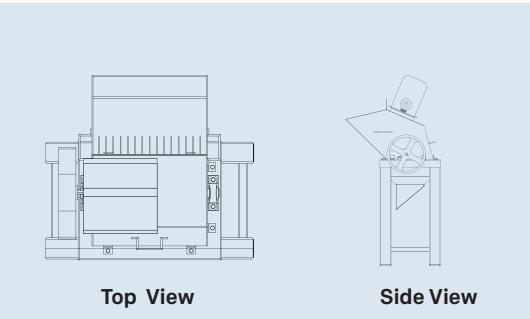
Slabs Melting Machine

The slab melting machine is used to melt frozen foods.



Ice Crusher

We provide an ice crusher specifically designed to produce ice cubes, efficiently crushing large quantities of ice bars in a short time. This helps save time and reduce labor costs.



Tube Ice Crusher

A tube ice crusher is a machine designed to crush tube ice, which is typically produced in the form of cylindrical tubes. This type of ice is commonly used in various industries like seafood processing, food storage, and transportation, due to its compact size and easy handling.

The tube ice crusher works by feeding tube ice into a crushing mechanism that shreds or grinds the ice into smaller pieces, ideal for applications that require crushed ice. The machine is usually equipped with sharp blades or a roller system that efficiently breaks the ice tubes. Tube ice crushers are designed to handle large volumes of ice quickly, making them suitable for high-demand environments.

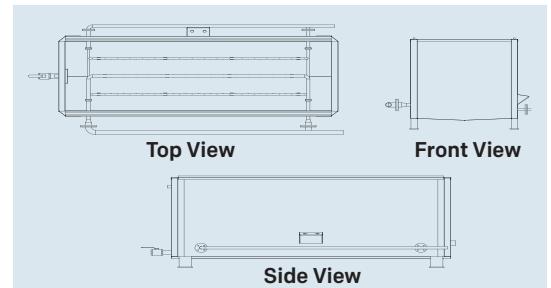
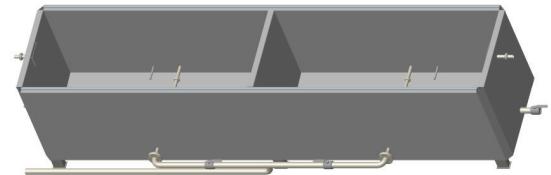
These crushers save time and labor by automating the crushing process, offering a consistent and fast supply of crushed ice. They are typically constructed with durable, food-grade materials to ensure hygiene and longevity.



Pasteurisation & Cooking Solutions

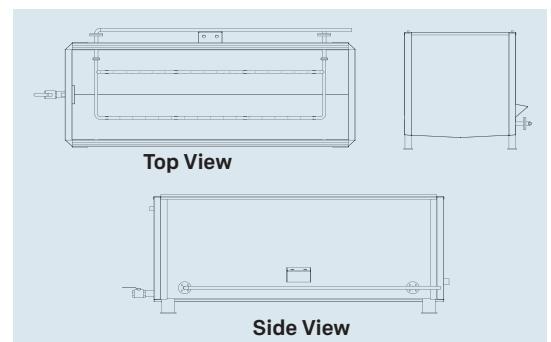
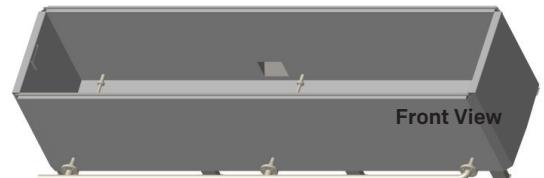
Pasteurisation Hot Tank

A Pasteurization Hot Tank is an essential component in seafood processing, designed to heat-treat seafood at controlled temperatures. This process helps eliminate harmful bacteria, extend shelf life, and ensure compliance with food safety standards. It is commonly used for shrimp, fish, crab, and other seafood before freezing or packaging.

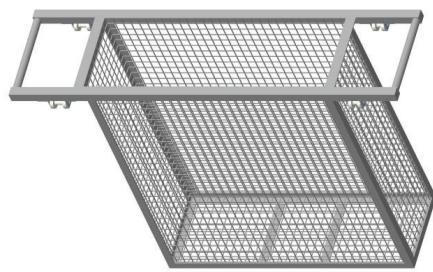


Pasteurisation Chill Tank

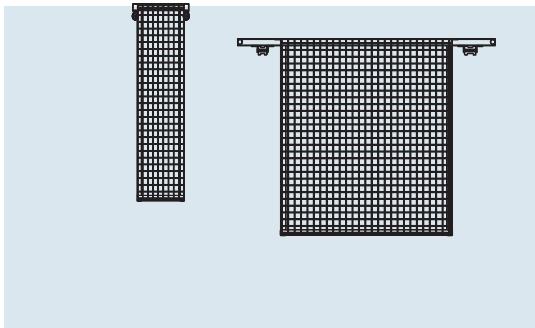
A Pasteurization Chill Tank is a vital component of seafood processing, designed to rapidly cool seafood after heat treatment. This prevents overcooking, preserves texture, and maintains freshness. It ensures compliance with food safety standards while enhancing shelf life.



Pasteurization Basket



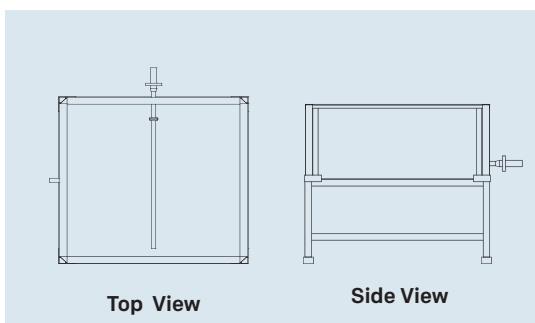
Pasteurization baskets are used for cooking crabs, allowing for easy handling of large quantities of products.



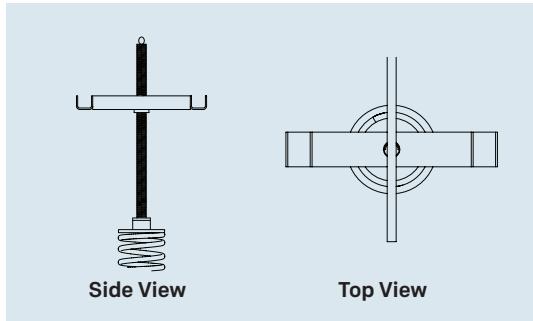
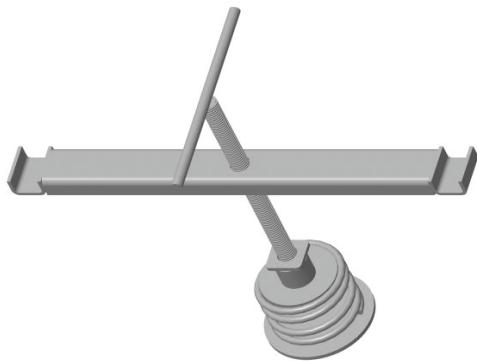
Mini Hot Tank



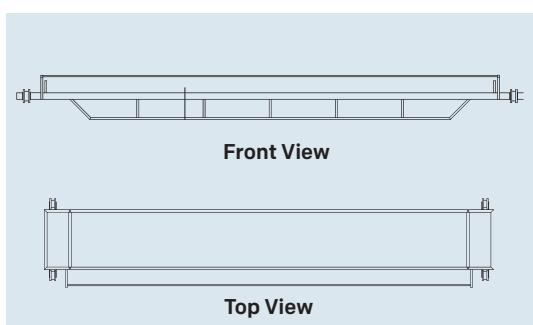
The mini hot tank operates similarly to a pasteurization tank but is smaller in size. It is designed for processing smaller quantities, offering better water usage efficiency and cost-effectiveness.



Basket Holding Clamp



Basket holding clamps are used to secure the baskets, ensuring that the crab boxes are firmly fixed and do not shake.



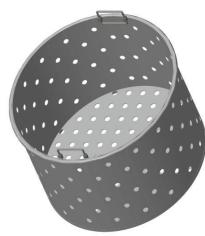
Hatch With Crane

The hatch is used for picking up and dropping baskets in the pasteurization tank. It allows for easy handling of the baskets when loaded. The movements are operated manually without a motor, while the lifting of baskets is powered by a motorized crane.

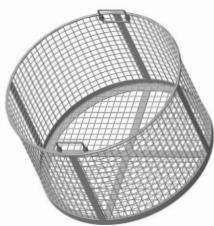
Cooker & Stove



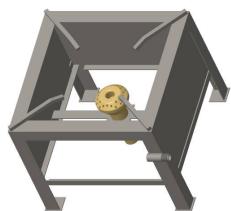
■ Cooker



■ Cooker Basket (Sheet)



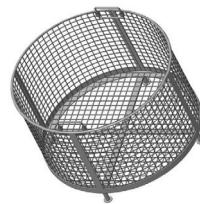
■ Cooker Basket (Mesh)



■ Stove



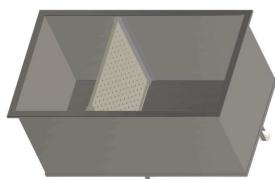
■ Crab Meat Punching Tool



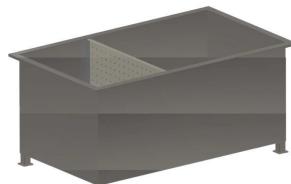
■ Davara Basket (mesh)

Tanks, Tables & Racks

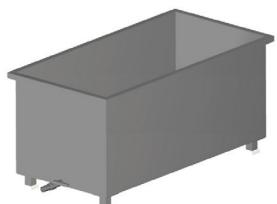
Our Range of Tanks



■ Glaszing Tank with Trolley



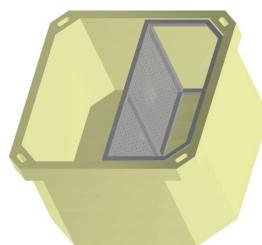
■ Glaszing Tank



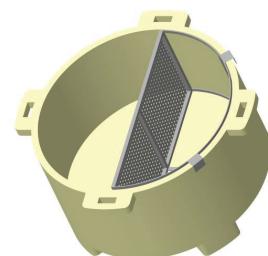
■ Water Tank (Square)



■ Glaszing Tank Stand Type



■ Sea Plast Square Partition



■ Sea Plast Square Partition

Our Range of Tables



■ Processing Table



■ Processing Table with Basin Stand



■ Checking Table with Tray



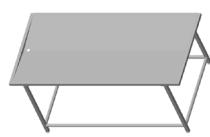
■ Checking with Weighment Table



■ Inspection Table HDPE



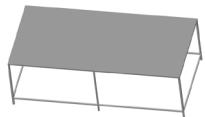
■ Repacking Table



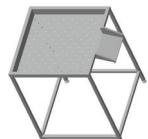
■ Meat picking Table



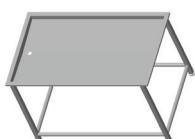
■ Filth checking Table with Light Stand



■ Field Crab Table (Light Duty)



■ Waste checking Table



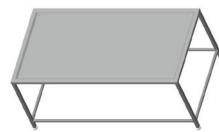
■ DePacking Table



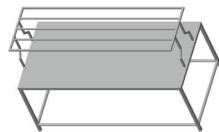
■ DePacking Table with shower



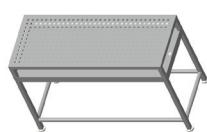
■ Wash Basin with Table



■ Meat packing Table



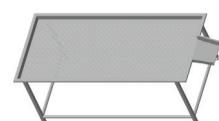
■ Dark Room Table



■ Washed Tray stored with Drain Table



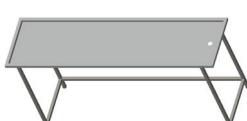
■ IQF Grading Table



■ Checking Table with Hopper



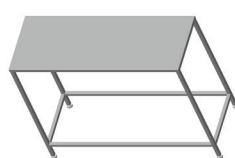
■ Inspection Table



■ Inspection Table



■ Processing Table with Waste Collecting system



■ Plain Table

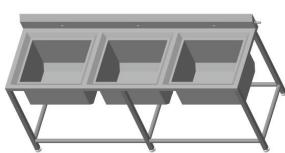


■ Writing Table

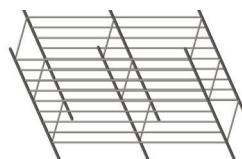


■ Supervisor Table

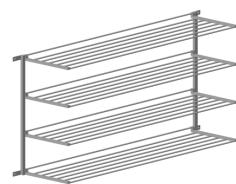
Stand & Rack



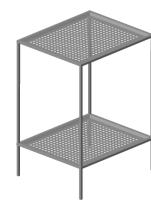
■ Utensil Washing Tank



■ Cooling Rack



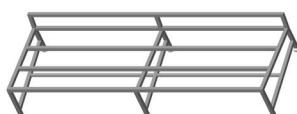
■ Utensil Washing Tray Stand



■ Utensil Filter Table



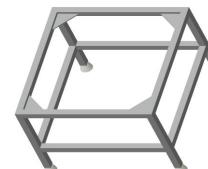
■ Glazing Basket



■ Drainout Stand



■ Unloading Rubber Stand



■ Weight Machine Stand

Light Frame, Stand & Switch Cover



■ Tube Light Frame (Single)



■ Tube Light Frame (Dual)



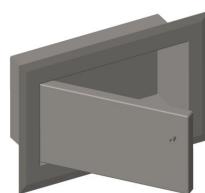
■ Nail Brush Stand



■ Box Stand



■ Switch Cover (Wall Outside)



■ Switch Cover (Wall Inside)

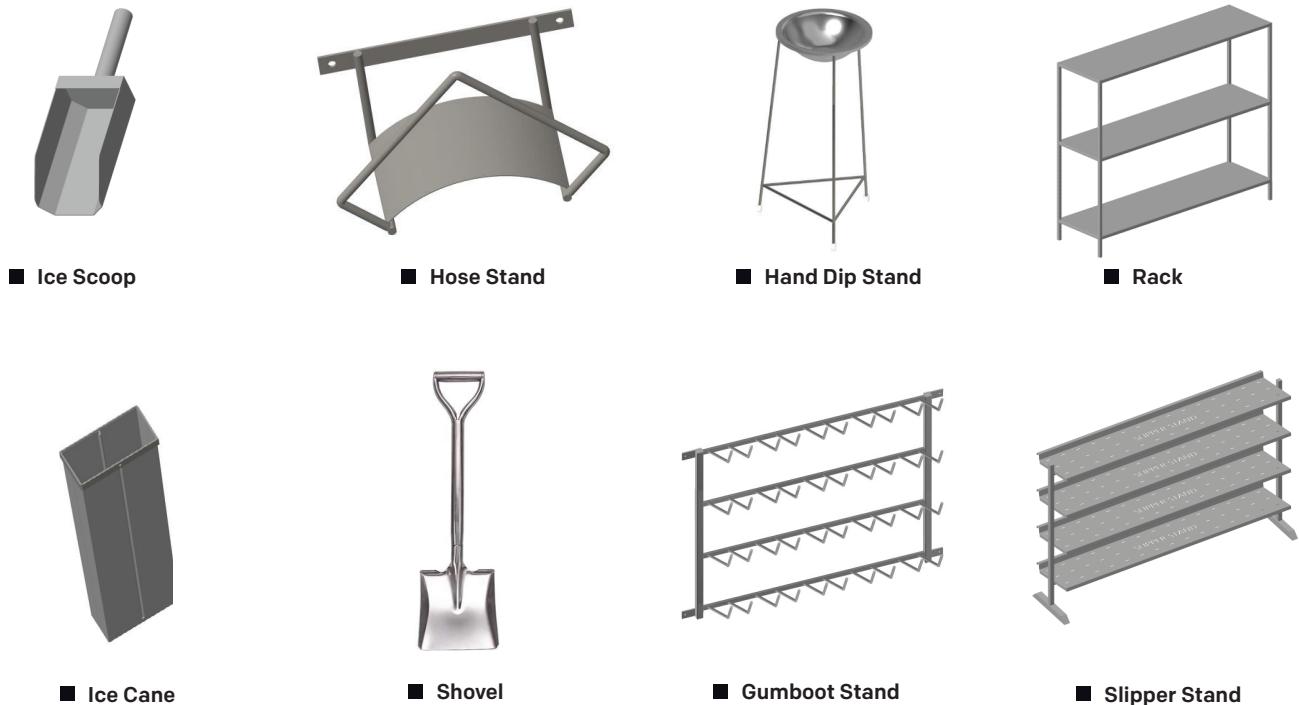


■ Foot Rest



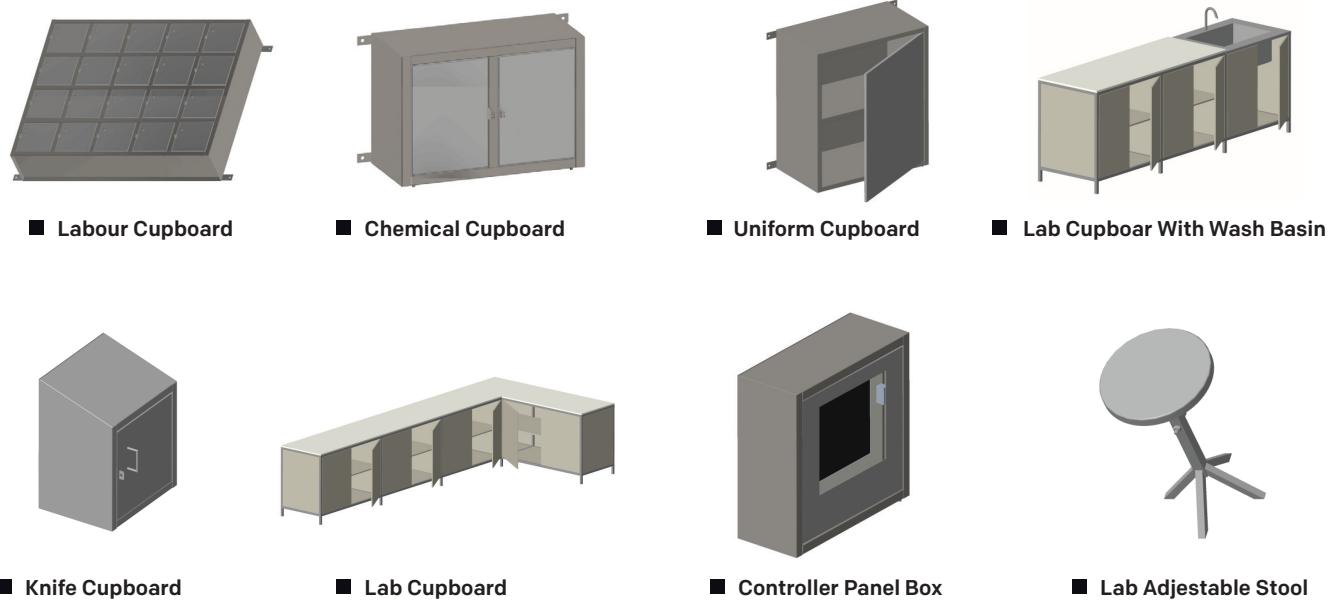
■ Dark Room Light Frame

Stand Rack & Shovel



Cupboard & Trolley

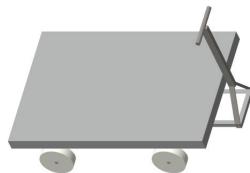
Cupboard



Trolley



■ Loading Trolley



■ MS Loading Trolley



■ Single Tub Trolley



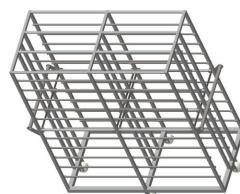
■ Cold Store Loading Trolley



■ Square Trolley



■ Net Trolley



■ Tunnel Trolley Removable Type



■ Tunnel trolley

Accessories & Other Solutions

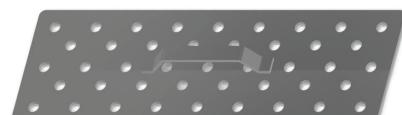
Divider Sheet & Knife



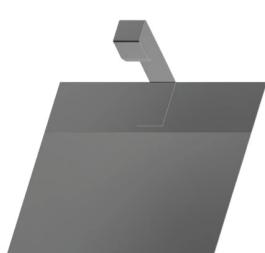
■ Divider Sheet HDPE



■ Divider Sheet SS



■ Holding Plate



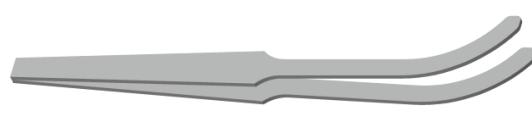
■ Basket Name Plate



■ Cutting Hammer



■ Chisel



■ Shell Checking Forcep's



■ Meat Picking Knife

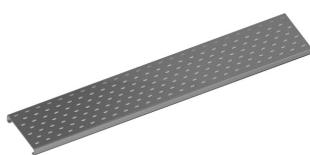


■ Meat Picking Knife



■ Holding Rod

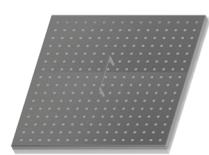
Drainage & Sump Cover



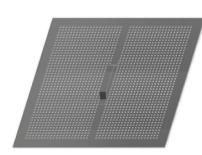
■ Drainage Grill (Sheet)



■ Drainage grill (pipe)



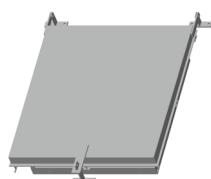
■ Filter (Sheet)



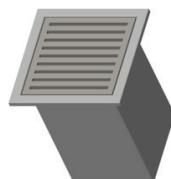
■ Filter (Mesh)



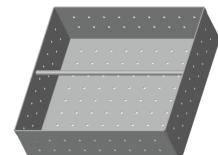
■ Trench



■ Sump Cover With Filter

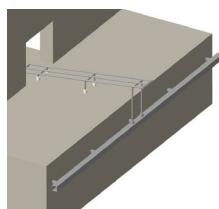


■ Junction Box With Filter

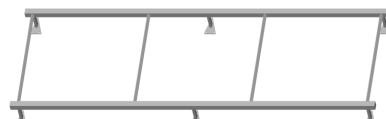


■ Junction Filter

Coat Hanger & RAMP



■ Ramp



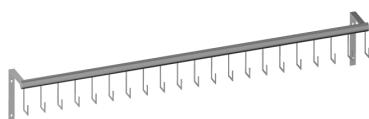
■ Tile Guard



■ Coat Hanger (Pipe)



■ Coat Hanger (Flat)



■ Coat Hanger Hook



■ Funnel

Wiper & Chemical Bat



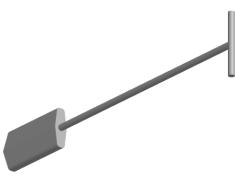
■ Rod Wiper



■ PP Wiper



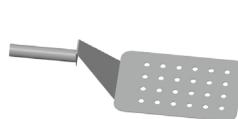
■ Rubber Wiper (Degree)



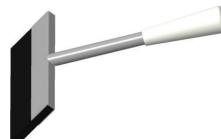
■ Chemical Bat



■ Rubber Wiper (Straight)



■ Nobashi Tray



■ Hand Wiper



■ Chemical Bat

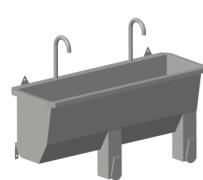
Wash Basin & Soap Oil Dispenser



■ Single Use Wash Basin



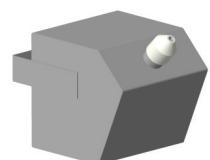
■ Cane Wash Basin



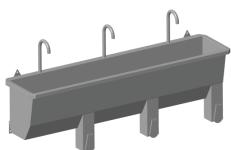
■ 2 User Wash Basin



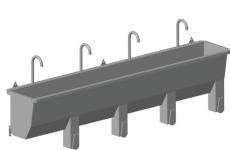
■ Soap Oil Cane 10L



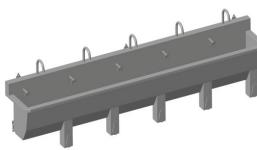
■ 1L Soap Oil Dispenser



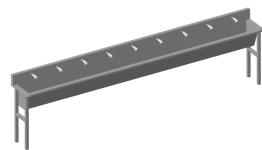
■ 3 User Wash Basin



■ 4 User Wash Basin



■ 5 User Wash Basin



■ 9 User Wash Basin



■ Foot Pedal Operated Sanitizer Machine

Pan & Scale



■ Pan



■ Lid



■ Grill



■ Tray



■ Tray



■ Bottom Tray



■ Scale



■ Leader Scale

Chute & Cladding



■ Chute Door (Hinge)



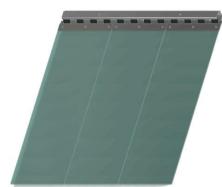
■ Chute Door (Sliding)



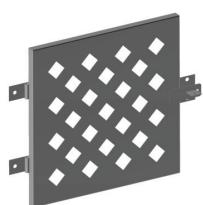
■ Cold Room Door



■ Flake Ice Room Hopper



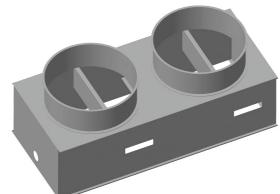
■ Flip Carton Clamp



■ Mini Door



■ Evaporator Cladding

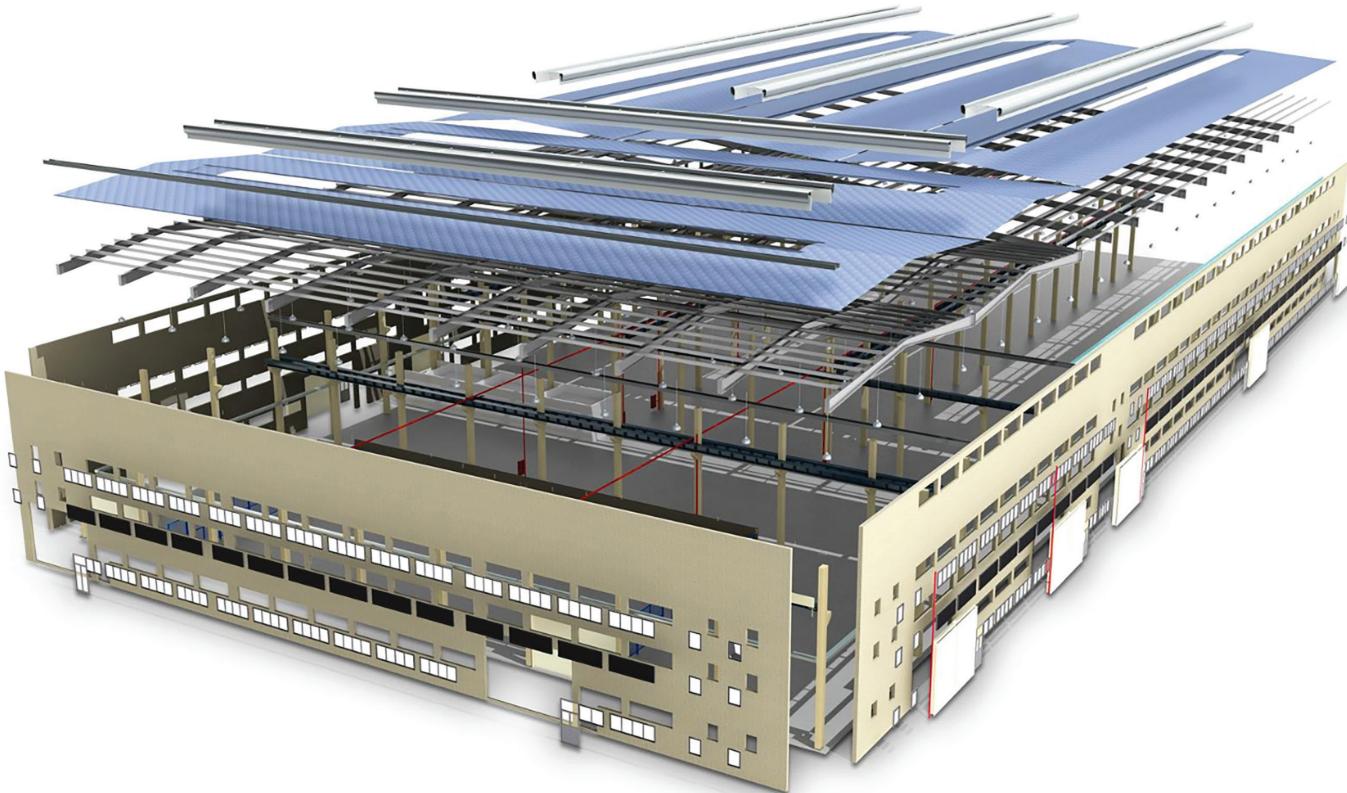


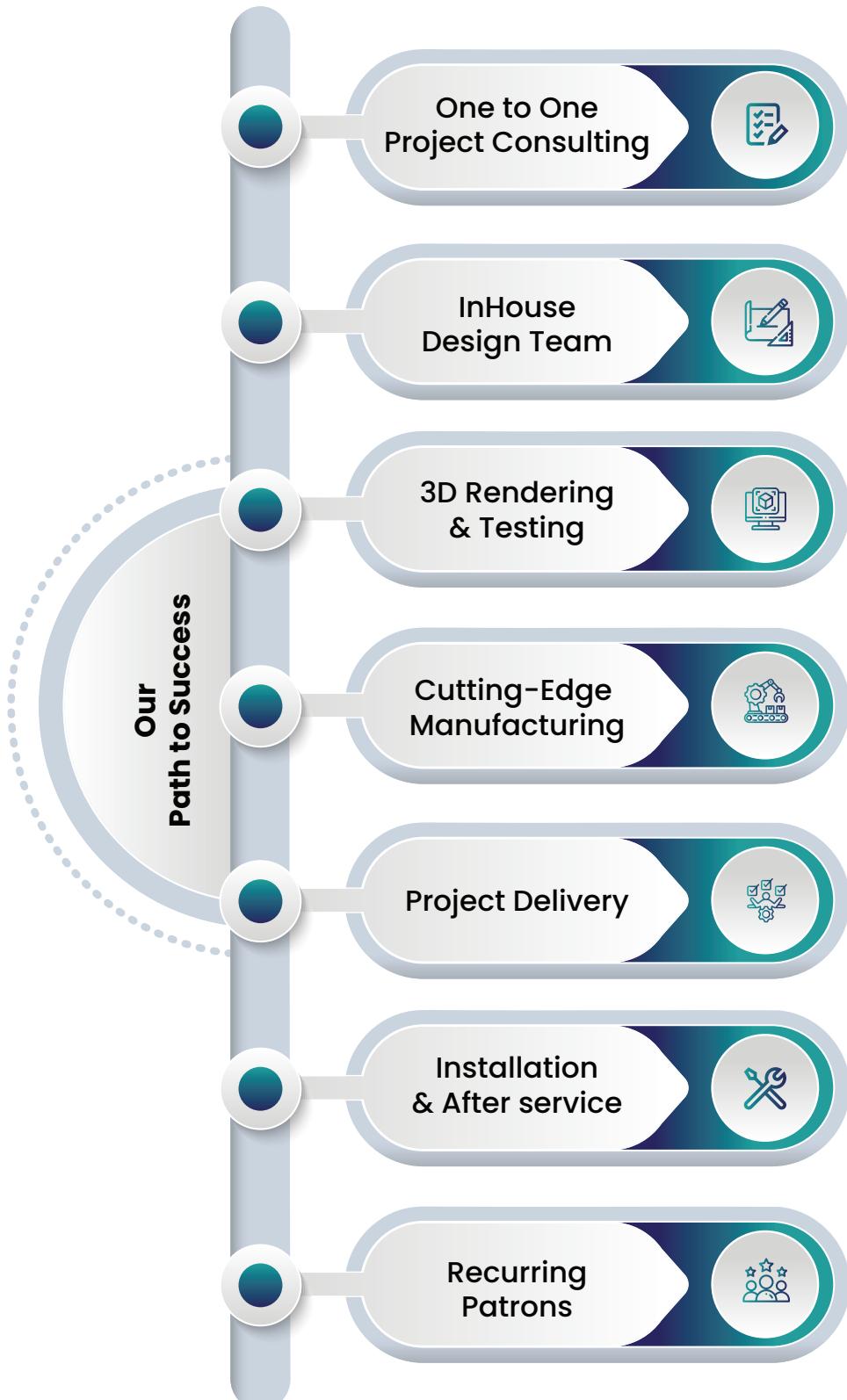
■ Evapco Cladding

Industrial Infrastructure and Roofing Solutions.

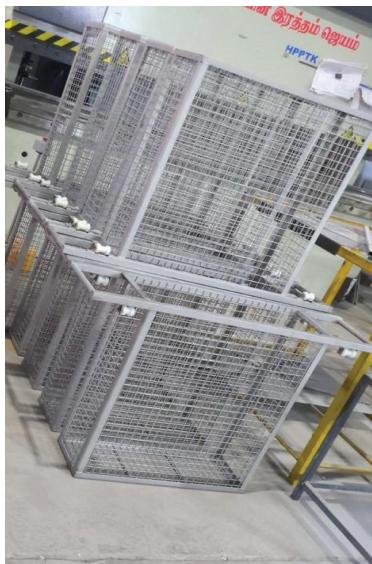
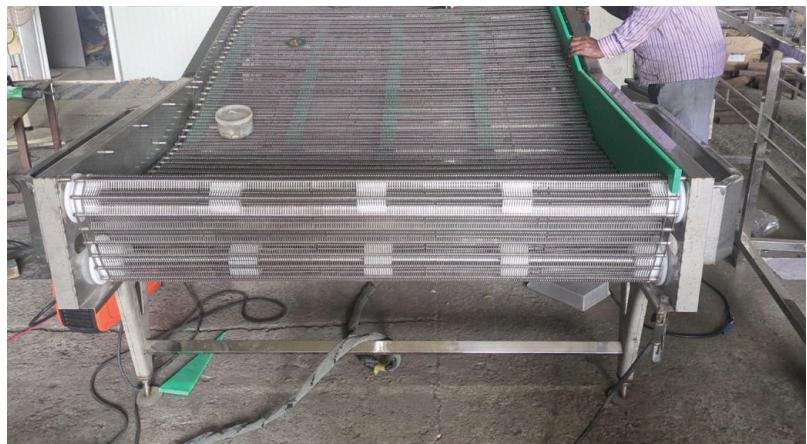
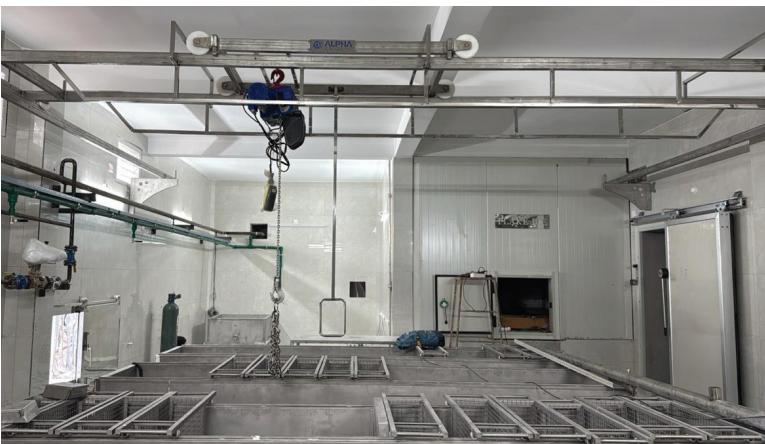
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The company's roofing solutions are tailored to protect against harsh weather conditions, offering advanced materials and installation techniques that guarantee long-term performance and minimal maintenance. Whether it's for factories, warehouses, or large-scale industrial facilities, Alpha Engineering delivers robust, customized solutions that support the operational success of businesses across sectors.





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